Deepwater Horizon Incident, Gulf of Mexico

Region 6 REOC Update

Subject: **Region 6 Update # 25**
Deepwater Horizon Incident, Gulf of Mexico
Date: May 22, 2010
To: Incident Command
Thru: Planning Section
From: Situation Unit
Operational Period: May 21, 2010 0700 – May 25, 2010 0700
Reporting Period: May 21, 2010 1300 – May 22, 2010 1300

1. Background

Site Name:	Deepwater Horizon Incident	**FPN#:**	N10036
Mobilization Date:	4/27/2010	**Start Date:**	4/28/2010

2. Current Situation

- The incident status summary as reported in the BP Situation Executive Summary as of 0600 on 5/22:
    - 24,918 personnel and 1,088 offshore vessels are currently responding to the incident.
    - Over 1.53 million feet of containment boom and 560,000 feet of sorbent boom have been deployed.
    - Over 231,000 barrels of an oil-water mix have been recovered.
    - A total of 36 controlled burns have been conducted.
    - On 5/21, containment operations on the Discoverer Enterprise were conducted using a Riser Insertion Tube Tool to optimize recovery rates.
    - Subsea dispersant injection continued on 5/21 at a rate of 10 gallons per minute. Crews plan to continue subsea dispersant injection from 5/22 through the morning of 5/23, contingent on sampling availability.

Summary of Dispersant Data

	TOTALS for Reporting Period (gal.)	TOTALS to date (gal.)
Surface	28,892	633,908
Subsurface	14,400	87,572

2.1 (USCG) Incident Command Post (Houma, LA)

- Controlled burning operations were not conducted on 5/21 due to the re-provisioning of boats.
- Surface dispersant was applied on 5/21 by planes and boats. Subsurface dispersant injection was also conducted on 5/21.
- BP received a letter dated May 20, 2010 from EPA HQ which issued a requirement for BP to provide all data and information within 24 to 48 hours of receipt of the data to EPA. EPA will continue to coordinate with BP to develop a plan to accomplish this requirement.
- EPA submitted a resource request for the Data Management Unit which includes a Data Scientific Support Coordinator to provide assistance with developing federal data reporting requirements, supporting the newly formed Information Management Unit, and loading data deliverables to EPA systems.

2.2 (USCG) Area Command Post (Robert, LA)

- EPA continued to coordinate with BP and NOAA on the acquisition and deployment of a second vessel for monitoring and sampling of subsurface dispersant. The Ocean Veritas vessel will replace the Brooks/McCall vessel on 5/25 or 5/26 for monitoring and sampling operations.
- EPA continued coordination with NOAA and USCG on data management integration efforts.
- EPA continued coordination to obtain a “uridium” phone for use on the Brooks-McCall boat on 5/22.

2.3 Air Monitoring/Sampling

- EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):
  - Venice, LA - 29.25274 N, 89.35750 W - V02;
  - Boothville, LA - 29.31449 N, 89.38433 W - V03;
  - Fort Jackson, LA – 29.35699 N, 89.45487 W - V05.
- EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):
  - Poydras, LA – 29.86609, -89.89108 - C02 - located at Fire Station number 8;
  - Chalmette, LA - 29.96082, -90.00132 - C04 - located at FireStation on Aycock St.
  - Hopedale, LA, - 29.84049, -89.68980 - C05 - located at Fire Station number 11.
- Each air monitoring location has 4 pieces of air equipment:
  - EBAM (Particulate Monitors)-equipment has replaced DataRAM’s;
  - AreaRae/MultiRae - monitoring VOCs;
  - PQ200 - samples for PM2.5;
  - SUMMA Canisters per location - sample for VOCs.
- Air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at Mobile Command Post in Venice and Chalmette.
- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters, REOC, and external response partners.
- There are no exceedances to report.

- An EPA Strike Team from Chalmette mobilized to Grand Isle, LA to investigate a complaint of VOC odors. The Team conducted a visual reconnaissance of the Caminada Pass area. Visual oil was noted at both the pass and shoreline facing the Gulf of Mexico. The Team utilized Suma Canisters to collect grab samples from two locations in Grand Isle, LA. The crew reported mild petroleum odors. AreaRAE VOCs readings were 0 ppm throughout the investigation.

EPA summary of air monitoring/sampling activities:

Air Monitoring & Samples	DataRAM (PM10)	AreaRae	SUMMA Canisters	PM2.5	TOTALS FOR 5/17
Venice	3 locs/24-hr	3 locs/24-hr	3	3	6
Chalmette	3 locs/24-hr	3 locs/24-hr	5	3	8
TOTAL TO DATE	6 locs/24-hr	6 locs/24-hr	247	126	

*QAQC samples not included in sample count

2.4 Water/Sediment Sampling

- EPA continues to conduct water sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.

- Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.

- Chalmette water operations plan to collect water samples from four points of concern in the Terrebonne and Timbalier Bays area. Samples will be collected from these locations once every 3-5 days. Samples were not collected from these locations on 5/21 because the locations were sampled during the previous reporting period.

- Chalmette water operations collected samples from five pre-determined sampling locations in the vicinity of Grand Isle, LA. Additionally, a sample of oil product located near one of the sample locations, NCA10-2337, was collected for laboratory analysis.

- Venice water operations plan to collect water samples from six points of concern located in the area near the Southwest and South Passes of the Mississippi River. Samples will be collected from these locations once every 3-5 days. On 5/21, samples were collected from each targeted location.

EPA summary of water/sediment activities:

Water/Sediment Samples	Water	Sediment	TOTALS FOR 5/18
Venice	6	0	6
Chalmette	6	0	6
TOTAL TO DATE	97	71	

*QAQC samples not included in sample count

2.5 TAGA

- On 5/21, TAGA performed mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, in Southern MS and AL from Stennis, MS to Dauphin Island, AL. All observed OD-00 and OD-27 indicator compounds were associated with a point source.
- TAGA plans to perform mobile monitoring for oil dispersant indicator compounds, OD-00 and OD-27, on 5/22 in Southern Louisiana.

2.6 ASPECT.

- ASPECT did not conduct flight operations on 5/21 because scheduled maintenance was conducted on the aircraft.
- ASPECT began flight operations on the morning of 5/22. The objectives for each flight are to collect data over oil burning operations and to photo document oiled areas. ASPECT noted heavy oil approximately 100 miles ESE of New Orleans and light to heavy oil approximately 125 miles SE of Chalmette. ASPECT noted a line of demarcation approximately 150 miles ESE of New Orleans. Heavy oil was noted north of the line and a sheen was noted south of the line.

2.7 Water Quality Protection Division Update

- A Water Quality Protection Division situation update was not provided.

3. EPA Assets

3.1 Current Assets Deployed

- Activated in Dallas, TX
  - REOC activated
  - SRICT activated
  - RRT activated

Deployed Personnel

Personnel	Dallas, TX	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Venice, LA	Slidell, LA	TOTALS
EPA								
- OSC	3		1		4	1		9
- RSC	5	1	1					7
- PIO		3						3
- Other	3	2	1	1				7
START	5				14	16		35
ERT Contractor								
TAGA Personnel							5	5
ASPECT Personnel							4	4
Other								
TOTALS	16	6	3	1	18	17	9	69

Deployed Equipment

Equipment	Dallas, TX	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Venice, LA	Slidell, LA	TOTALS
Mobile Command Post						1		1
ASPECT							1	1
TAGA Bus							1	1
LRV		1			1			2
Gooseneck Trailer						1		1
20 KW Generator						1		1
Dually Truck (R7)					1			1
Boat (R7)					1			1

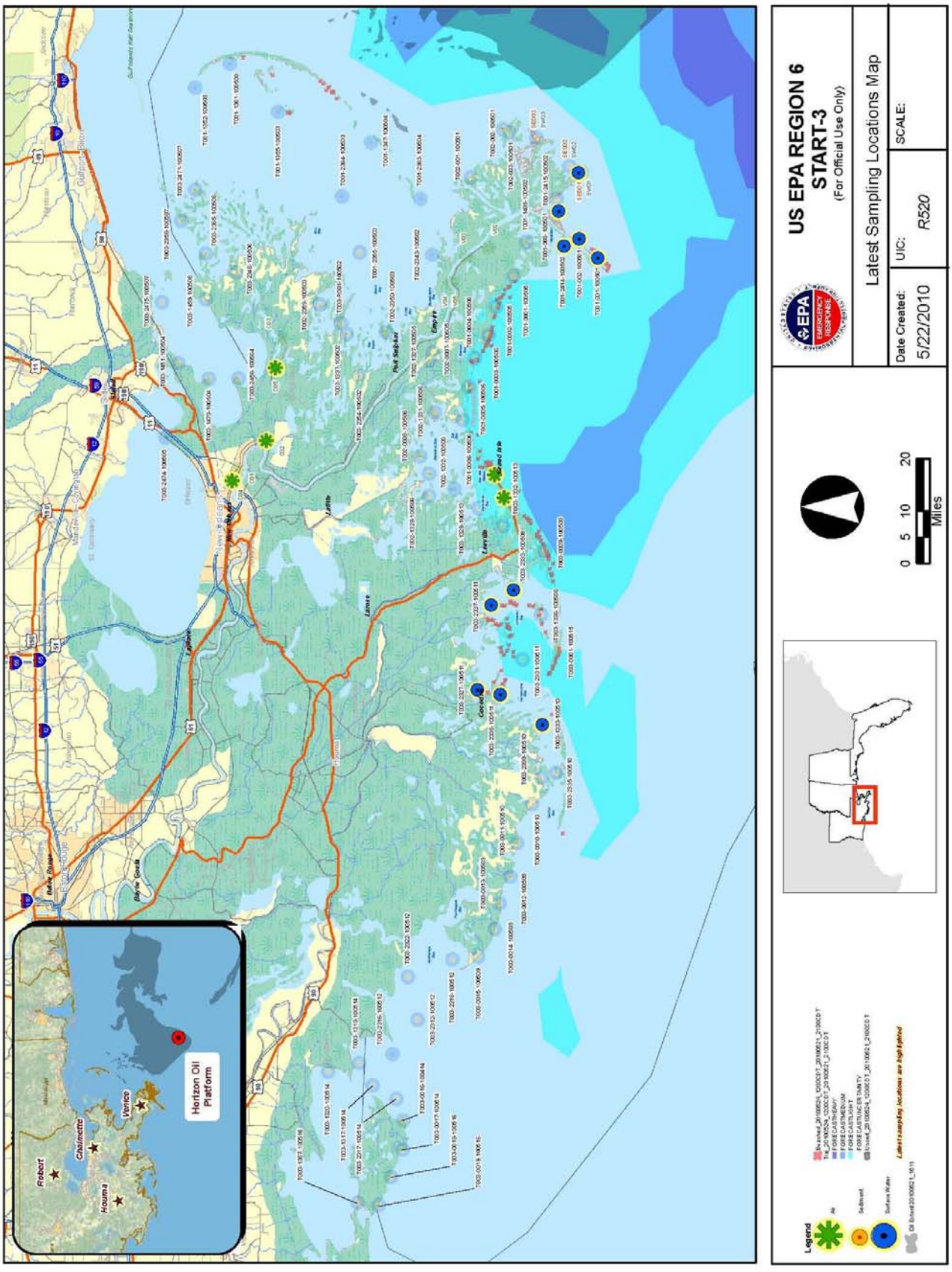
* One TAGA bus has been assigned to Region 4 Operations

4. Daily Cost Estimates

	Est. Personnel Cost	Est. Travel Cost	Est. Contracts/ Purchase Spent	Total Est. Cost/Spent	Total Contract/ Purchase Oblig.	Total USCG PRFA Ceiling	Balance	Est. Daily Burn Rate	Days left
USCG PRFA FPN N10036	$305,412	$145,380	$2,460,501	$2,911,293	$3,403,355	$4,577,819	$1,666,526	$126,066	13
TOTAL EPA FUNDED	$305,412	$145,380	$2,460,501	$2,911,293	$3,403,355	$4,577,819	$1,666,526	$126,066	13
Region 6 Indirect Rate 13.12%						$600,610			
Louisiana Total	$305,412	$145,380	$2,460,501	$2,911,293	$3,403,355	$5,178,429	$1,666,526	$126,066	13

Figure 1 – View of water sampling operations.

Monitoring/Sampling Locations



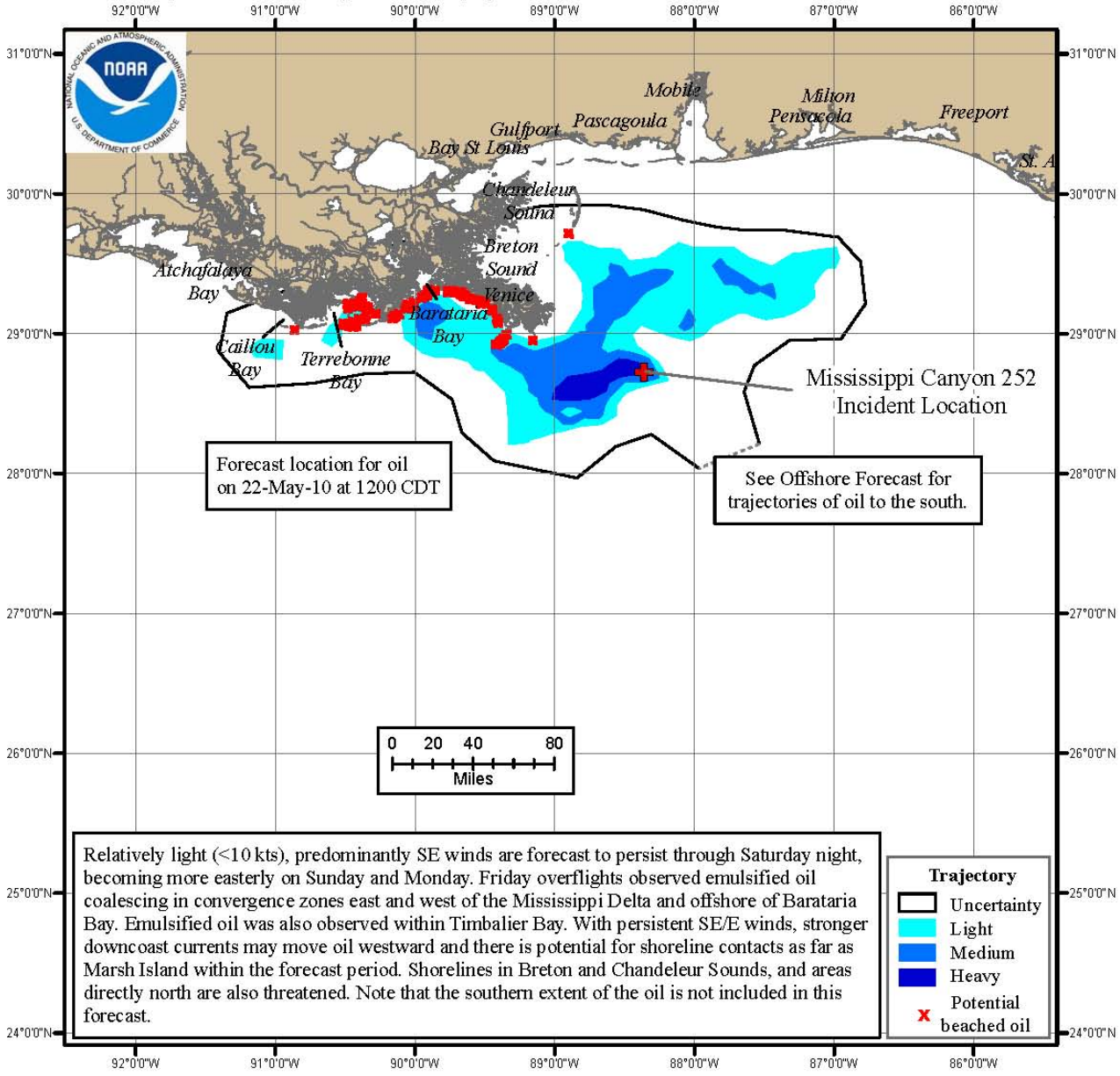
Nearshore Surface Oil Forecast Mississippi Canyon 252

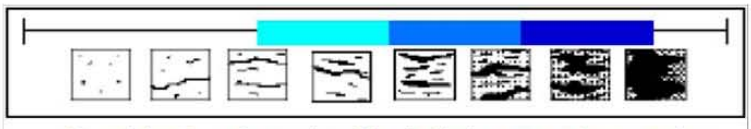
NOAA/NOS/OR&R

Nearshore

Estimate for: 1200 CDT, Saturday, 5/22/10
Date Prepared: 1900 CDT, Friday, 5/21/10

This forecast is based on the NWS spot forecast from Friday, May 21 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, TAMU/TGLO, NAVO/NRL) and HFR measurements. The model was initialized from Friday satellite imagery analysis (NOAA/NESDIS) and overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.





this scale bar shows the meaning of the distribution terms at the current time

Next Forecast:
May 22nd PM